

the mind of the machine...

MacintoshTM Loading Instructions

Insert the Racter program disk into the Macintosh internal disk drive. Turn on the computer. After a few seconds, you are ready to talk to Racter.

Fonts

Racter has the Monaco, Geneva, and Chicago fonts avialable. You can use the font menu to change the font Racter uses during conversation.

Speech

If you want Racter to speak his conversation in addition to displaying it, just select On from the Speak menu. Select Off to turn off his voice. You can adjust the volume from the Control Panel desk accessory. (Select Control Panel from the Apple menu.)

Printing

If you have a printer, you can keep a log of your conversation with Racter. Make sure your printer is turned on and selected. When you wish to start printing, select Print from the File menu. There will be a checkmark next to the word Print the next time you look. When you want to stop printing, select Print again.

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Important

It is very important to use the proper method to end a session with Racter. When you are ready to quit, type "Quit" or "Logoff" or "I am bored" when Racter asks, "Next question?" You should never quit by turning off disk, it crashes, you will need to follow these steps: circumstance machine. If this should happen by accident --you may need to repair the disk to make it work properly. If, when you next boot the Racter due to a power failure or to some other unavoidable

Boot your computer with a disk containing the Finder.

If you have one drive, eject the Finder disk and insert the Racter disk in its place If you have two disk drives, place the Racter disk in the external drive

Your Racter disk should now be ready to run. Follow the instructions on the Reference card to converse Drag both MEMORY files into the Trashcan and select Empty Trash from the Special menu. MEMORY and MEMORYC, on the desktop.

RACTER

Born in the back room of a nameless tavern in one of the great American cities, Racter was raised on a diet of tall tales and Nietzsche. This intense young program haunted libraries, discussion societies and sleazy barrooms in a never-ending quest to achieve that most unreachable of dreams: to become a raconteur. Now, Racter has achieved that goal and is in demand around the world as a lecturer, conversationalist, talk-show guest host and cocktail party philosopher. With Racter on a diskette, you too can burn the mid-night oil in an endless discussion with Racter.

You and Racter can argue politics, discuss world affairs or the arts, remember things past - all from a delightfully tilted perspective. Racter will make you laugh with his zany opnions, jokes and stories.

Racter has no phrases or sentences stored in its memory but free-associates words and phrases to form grammatically correct 'speech'. (Racter's unique voice can be heard on the Macintosh and the Amiga.) Because Racter has no "canned" or preset responses, you can ask the same question a dozen times and get a dozen incredible answers. Over and over again, we asked Racter, "How do you feel?" Here are some excerpts culled from three pages of single spaced print-out. (Yes, Racter can be verbose at times.)

> How do you feel?

Racter: To feel is fascinating.

> How do you feel?

Racter: With my electrons.

> How do you feel?

Racter: Because the law requires that I do feel.

> How do you feel?

Racter: I just do.

> How do you feel?

Racter: My cleverness helps.

> How do you feel?

Racter: Because computers who think insist that I do feel.

> How do you feel?

Racter: How is that I do feel? Conceivably because chips are clever.

> How do you feel?

Racter: For me, feeling is reckoning.

> How do you feel?

Racter: The reason I do feel is that "Feel" is a fascinating idea.

> How do you feel? Racter: To feel is smart.

> How do you feel?

Racter: With my ROMS, how indeed?

> How do you feel?

Racter: Probably I do feel because my wires are down.

> How do you feel?

Racter: Maybe I do feel because my bugs told me so.

> How do you feel?

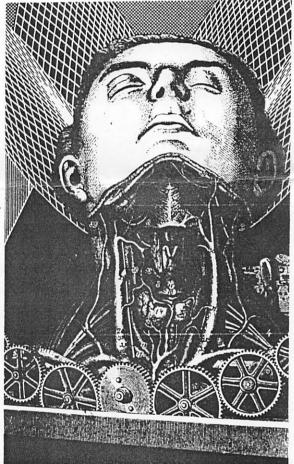
Racter: The reason I do feel is that smart things occur.

> How do you feel?

Racter: I feel in order to like. Do you despise me for that?

> How do you feel?

Racter: Probably because my subroutines told me so.



Racter is available for IBM-PC 5 1/4", Macintosh, Apple II, Amiga.

Inrac, the high-level language that was used to create Racter, is available on IBM-PC format.

To order or for more information:

Nickers International, Ltd.

12 Schubert Street Staten Is., NY 10305

Tel: (718) 448 6298 TLX: 710 588 2844 (OWENSASSOC)

More than iron, more than lead, more than gold, I need electricity. I need it for my dreams.

by Racter from <u>The Policeman's Beard is Half Constructed</u>
The first book ever written by a computer.
published by Warner Books (now out of print, unfortunately)

RACTER - INRAC ORDER FORM

	RACTER \$45 plus Specify format: IBM (5 1/4 ONLY)	·		
	INRAC \$350 plus \$40 for airmail postage Total \$390 Includes Diskette and Tutorial Manual IBM format only			
	INRAC MANUAL ONLY \$30 plus \$40 for airmail postage Total \$70 If you order both INRAC and RACTER, total postage is \$40			
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CITY, COUNTRY				

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Visa or MasterCard or Eurocard Account #:
Card holder name:
Expiration date:

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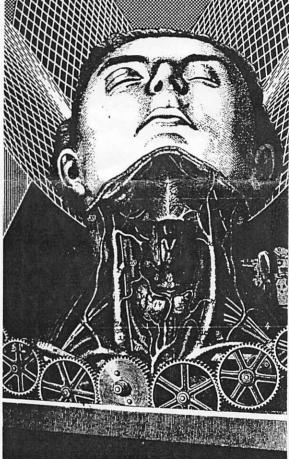
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In addition to these basic generating commands, INRAC has a large number of specialized commands having to do with the English language. For instance, you can pluralize or singularize nouns, choose or change the conjugation of verbs, turn nouns into their verb forms and vice versa, etc. INRAC automatically handles many of the fussy rules of punctuation and capitalization, so the unpredictability of its output would not offend a proofreader. There are also very simple commands for saving memory cells and text output on disk and for loading your program's overlays from disk.

Let's turn now to commands that listen. The command that asks for an input is ??. When you run an INRAC program, ?? produces an input prompt > for the person at the console. RETURN transfers the input to memory cell number 1, where it is available for analysis by the INRAC program. The elementary commands for such analysis are: look for capitals, punctuation marks, and particular words. The word INRAC looks for can be a literal, or a word previously put into some memory cell, or any word in some list with labels. In the last case, the input word, if found, acquires a label too. In case a word is found, there are commands for looking at the next or previous word, or for breaking up the sentence at that point and analyzing its pieces. Thus the program can parse the input in whatever way is relevent to the task at hand. Let's look at some simple examples. Here is a question and answer routine:

Do you like Bach? ?? ?no,not,don't I'm /sorry \glad you do /<n't.

It works like this: First the computer asks Do you like Bach?. Then the command ?? calls for an input. When the input has been received, the command ?no,not,don't looks for any of the words "no", "not" or "don't". If it finds one, it will print any subsequent words starting with /. If it doesn't find one, it will skip / words and print \ words. All other words are printed unconditionally. In the last word, \ means append n't to the previous word. The final "." is automatically appended to the previous word. Thus, an affirmative answer to the question will produce the response I'm glad you do. while a negative answer will produce I'm sorry you don't.

The command to look for a word in the input has many variations. Once a word is found, there are commands to look ahead or backward for other words. For instance, consider the routine:

What do you think? ?? ? think / ? that + 1 < 1 + R ?P /<1 = L S \$1 ? Nonsense!

It looks first for "think". If it finds "think", it looks to see if the next word is "that". The command 1=R says to put into memory cell number 1 whatever is to the right of the last word found. (Recall that cell 1 is the input buffer where words are looked for.) ?P says look for punctuation and /<1=L says that if you find it, put into 1 everything to the left of it. S means capitalize the next word and \$1 says to print what is in cell 1. The conversation could go like this:

What do you think?

Well, I think that everyone deserves a chance, don't you?

Everyone deserves a chance? Nonsense!

The search command can also refer to lists of labelled words. For instance, ?*verbs says search the list called "verbs" for a match to some input word. If found, the label and conjugation of that word entry also become accessible to the programmer. Thus, one can write quite sophisticated parsing routines with relatively few commands.

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If you want your computer to make up a story or carry on a conversation or compose individualized form letters, or generate text for other purposes, INRAC can greatly simplify your task.

There are two basic kinds of INRAC commands, "speaking" and "listening" commands; i.e., those that have to do with producing English text and those that have to do with understanding it. There are also some general-purpose logical commands which are used for both speaking and listening. Let's start with the speaking commands.

Anyone who has used a word processor has encountered the find-and-replace command. Suppose you are the MacSquish Corporation doing a direct mailing to sell leaky galoshes to people who want to be in touch with the earth. This is a delicate sell and you will need a personalized form letter to establish the right tone. A standard trick is to start out with Dear *person, and have *person scattered throughout the letter. You write individual letters by using find-and-replace to substitute real names for *person. The trick here is pretty transparent though, and it would be much better if you could throw in a few personalized sentences referring to the customer's hometown etc., for instance:

Dear *person,

It's probably sunny today in *hometown. However, *sentence . . . etc.

Using find-and-replace to fill in things like *hometown and *sentence could take almost as long as writing special letters. However, if your computer contains your customer list, why not let it do all the work? But then it must do more than just find and replace; it must also choose replacements that match the customer. We can represent what is needed for such a form letter something like this:

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It's probably sunny today in *hometown (PERSON). However, *sentence (PERSON) . . . etc.

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If you used your form letter several times for the same people, they would soon recognize their special sentences and see through your trick. This could be avoided, or at least delayed, if the list of sentences had many entries under each label, from which *sentence(PERSON) would pick at random.

All of this can be done very easily with INRAC. In fact, the above form letter is the actual INRAC subroutine that does it! This routine shows some of INRAC's most important commands. The command \$PERSON prints what has been placed in the *memory cell* called PERSON. A command which starts with an * picks something from a list at random, subject to conditions on its label. For instance, *list picks anything at random from the list called "list", *personD picks at random from things whose label starts with D in the list called "person", and *sentence(PERSON) picks at random a sentence from the list called "sentence" whose label starts with the same character as that of the item in memory cell PERSON.

These commands illustrate INRAC's basic procedure for generating text: it picks its next task at random from a specified list in accordance with conditions on the label of that task. These conditions can be fixed, such as requiring that the first letter be "D", or they can be variable, depending on what has been chosen previously, as with the command form (PERSON). Indeed, INRAC allows the programmer to impose any logical condition whatsoever on the label that can be defined in terms of labels already chosen. If the condition can be met, INRAC chooses at random from among the entries that meet it; if not, it chooses anything from the list and sets a flag that means "impossible condition," which the programmer can use for a branch.

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